

-86°C Ultra LowTemperature Freezer — MDF-U5386SC

ULTRA LOW TEMPERATURE FREEZERS (CONVENTIONALLY INSULATED)

MDF-5386SC

483L (17.1 с∪.ғт.)

320 2"
INVENTORY



- Ideal -86°C freezing environment by means of conventional insulation walls.
- Specially designed compressorS for ultra-low temperature applications.
- Microprocessor temperature control with digital input for precise setting and control.
- Built-in temperature and power failure alarms (audible/visible).

FEATURE	BENEFIT
TLATUTL	DLINETTI
Microprocessor Controls	Comprehensive setpoint, alarm, monitoring and diagnostic functions based on SANYO-built microprocessor controller with digital display
SANYO-Brand Refrigeration	Built by SANYO specifically for demanding ultra-low temperature applications in a laboratory environment; CFC-free refrigerants only
Integrated Cabinet Design	High performance refrigeration system with foamed-in-place insulation maximizes interior temperature uniformity and protects against fluctuating ambient temperatures

TECHNOLOGY

■ Constant -86°C ■ Microprocessor Temperature Control ■ Improved Design ■ Temperature & Power Failure Alarms ■ Digital display

SANYO MDF-Series ultra-low temperature freezers maintain internal temperatures as low as -86°C (-123°F). All models use SANYO uniquely designed compressors for ultra-low temperature applications. Manufactured with foamed-in-place insulation, they are ideally suited for use in laboratories and hospitals for long-term preservation and storage of blood, specimens and components, as well as materials testing.

Advanced features include a microprocessor temperature control system with digital temperature display, a platinum resistance sensor for extra precision and reliability, a power failure warning system with built-in audible and visible indicators, double insulation polyurethane walls and easy open/ easy-close hinged outer door latch.

EVOLUTIONARY DESIGN

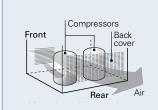
- The newly developed refrigeration system and freezer structure minimizes intrusive operating noise.
- Achieves 10% higher energy conservation than competing models.
- The newly developed back cover combined with new aerodynamically designed and placed components in the refrigeration compartment provide superior air flow, making it possible to drastically reduce the stress to the freezer and contributing to excellent durability.
- Two independent and insulated inner doors ensure maximum interior chamber uniformity.

ACCESSIBILITY

- A new rugged inner door latch tightly closes the inner door and makes accessing chamber contents easier.
- The condenser filter is located at the bottom right side of the front panel to make filter removal and cleaning easier.
- Alarm lamp and buzzer offer secure warning of power failure or abnormal temperature increase.
- New rugged, one-handed outer door latch has a hasp to allow a padlock for additional security

SAFETY

- High and low temperature warning provides an audible and visual alarm when the temperature deviates more than ±5°C to ±20°C (adjustable) from the set point.
- Alarm ring back function ensures that buzzer will resume operation, should alarm conditions continue after it is silenced.
- Microprocessor-controlled filter-clog check function protects the refrigeration circuit.
- Control panel with digital display for easy operation.

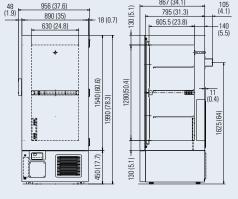








Dimensions [Unit : mm (inch)] 48 956 (37.6) 887 (34.1) (1.9) 890 (35) 19 (0.7) 795 (31.3)



Options



Rack Capacity: 24

Circular recorder
MTR-C954





CVK-UB2 LN2 backup system CVK-UBN2

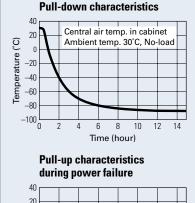
ISO 9001 & 14001 certified

*Appearance and specifications are subject to change without notice.

*Cooling performance is indicated by the temperature reached at the center of the freezer (at ambient temperature of 30°C with no load). In order to use the freezer at a stable temperature for a long time, it is recommended that the temperature be set to at least 5°C higher than the indicated lowest temperature. In addition, depending on the usage conditions, it may not be possible to reach the indicated lowest temperature.

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Performance Data



20 0 0 -0 -0 0 2 4 6 8 10 12 14 Time (hour)

CO₂ backup system operation characteristics 14 12 10 8 Ambient temp. and maintenance of -70°C by injection of LCO₂ (30kg)

10 15 20 25

Ambient temperature (°C)

30

Specifications

Specifications			
Model	MDF-U5386SC		
Temperature range	-50°C to -86°C (1°C increment)		
Maximum cooling	-86°C		
performance	(Ambient temp. 30°C)		
Exterior dimensions	890 x 875 x 1990mm		
(W x D x H)	(35.0" x 34.4" x 78.3")		
Interior dimensions	630 x 600 x 1280mm		
(W x D x H)	(24.8" x 23.6" x 50.4")		
Net weight	Approx. 305kg (672 lbs.)		
Effective capacity	483 L (17.1 cu.ft.)		
Shelf	Stainless steel, Adjustable,		
	3 shelves, W608 x D533mm,		
	Max. load: 50kg (110 lbs.)/shelf		
Access port	17mm diameter, 3 locations		
	(back, bottom left/right corner)		
Compressor	Hermetic type, Output: 1100 W		
	(high stage side), 1100 W (low		
	stage side)		
Refrigerant	HFC refrigerant		
Alarm	High/low temperature,		
	Power failure, Filter check,		
	Battery check		
Remote alarm contact	Allowable contact capacity:		
	DC 30V, 2A		
Accessories	1 set of keys, 1 scraper		
Power Requirement	220V / 60 Hz		

Built-in voltage booster

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